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- 1 [Managing resources and services: The DSpace institutional digital repository system: current functionality](#) 100%

Robert Tansley , Mick Bass , David Stuve , Margret Branschofsky , Daniel Chudnov , Greg McClellan , MacKenzie Smith

**Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries May 2003**

In this paper we describe DSpace&trade;, an open source system that acts as a repository for digital research and educational material produced by an organization or institution. DSpace was developed during two years' collaboration between the Hewlett-Packard Company and MIT Libraries. The development team worked closely with MIT Libraries staff and early adopter faculty members to produce a 'breadth-first' system, providing all of the basic features required by a digital repository service. As ...
- 2 [XSLT for tailored access to a digital video library](#) 99%

Michael G. Christel , Bryan Maher , Andrew Begun

**Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries January 2001**

Surrogates, summaries, and visualizations have been developed and evaluated for accessing a digital video library containing thousands of documents and terabytes of data. These interfaces, formerly implemented within a monolithic stand-alone application, are being migrated to XML and XSLT for delivery through web browsers. The merits of these interfaces are presented, along with a discussion of the benefits in using W3C recommendations such as XML and XSLT for delivering tailored access to ...
- 3 [Workshop on compositional software architectures: workshop report](#) 98%

**ACM SIGSOFT Software Engineering Notes May 1998**

Volume 23 Issue 3
- 4 [A prototype implementation of archival Intermemory](#) 97%

Yuan Chen , Jan Edler , Andrew Goldberg , Allan Gottlieb , Sumeet Sobti , Peter Yianilos

**Proceedings of the fourth ACM conference on Digital libraries August 1999**

- 5 A streamlined system for building online presentation archives using SMIL 95%  
 [A] Darren James , Jane Hunter  
**Proceedings of the Australasian conference on Computing education** December 2000  
 The demand for and expectation of ubiquitous access to multimedia online learning resources are much higher amongst computer science students than in other fields of study. Previous systems providing internet access to digital video or audio recordings of lectures have been disappointing or ineffective as a learning experience or excessively complex and time-consuming from the educator's point of view. This paper describes a new approach to building an online presentation archive of lectures, ...
- 6 A relational information resource dictionary system 95%  
 [A] Daniel R Dolk , Robert A. Kirsch  
**Communications of the ACM** January 1987  
 Volume 30 Issue 1  
 A relational implementation of IRDS using SQL demonstrates how the flexibility of the relational environment enhances the extensibility of the IRDS while at the same time providing more powerful dictionary capabilities than are typically found in relational systems.
- 7 Mariposa: a wide-area distributed database system 94%  
 [A] Michael Stonebraker , Paul M. Aoki , Witold Litwin , Avi Pfeffer , Adam Sah , Jeff Sidell , Carl Staelin , Andrew Yu  
**The VLDB Journal &mdash; The International Journal on Very Large Data Bases** January 1996  
 Volume 5 Issue 1  
 The requirements of wide-area distributed database systems differ dramatically from those of local-area network systems. In a wide-area network (WAN) configuration, individual sites usually report to different system administrators, have different access and charging algorithms, install site-specific data type extensions, and have different constraints on servicing remote requests. Typical of the last point are production transaction environments, which are fully engaged during normal business h ...
- 8 VARIATIONS: a digital music library system at Indiana University 92%  
 [A] Jon W. Dunn , Constance A. Mayer  
**Proceedings of the fourth ACM conference on Digital libraries** August 1999
- 9 EROS: a fast capability system 89%  
 [A] Jonathan S. Shapiro , Jonathan M. Smith , David J. Farber  
**ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles** December 1999  
 Volume 33 Issue 5  
 EROS is a capability-based operating system for commodity processors which uses a single level storage model. The single level store's persistence is transparent to applications. The performance consequences of support for transparent persistence and capability-based architectures are generally believed to be negative. Surprisingly, the basic operations of EROS (such as IPC) are generally comparable in cost to similar operations in conventional systems. This is demonstrated with a set of microbe ...
- 10 LegionFS: a secure and scalable file system supporting cross-domain high-performance applications 88%  
 [A] Brian S. White , Michael Walker , Marty Humphrey , Andrew S. Grimshaw  
**Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)** November 2001  
 Realizing that current file systems can not cope with the diverse requirements of wide-area

collaborations, researchers have developed data access facilities to meet their needs. Recent work has focused on comprehensive data access architectures. In order to fulfill the evolving requirements in this environment, we suggest a more fully-integrated architecture built upon the fundamental tenets of naming, security, scalability, extensibility, and adaptability. These form the underpinning of the Le ...

# 11 Fast detection of communication patterns in distributed executions

88%

1 Thomas Kunz , Michiel F. H. Seuren

**Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research** November 1997

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

# 12 Presto: an experimental architecture for fluid interactive document spaces

85%

1 Paul Dourish , W. Keith Edwards , Anthony LaMarca , Michael Salisbury  
**ACM Transactions on Computer-Human Interaction (TOCHI)** June 1999  
Volume 6 Issue 2

Traditional document systems use hierarchical filing structures as the basis for organizing, storing and retrieving documents. However, this structure is very limited in comparison with the rich and varied forms of document interaction and category management in everyday document use. Presto is a prototype document management system providing rich interaction with documents through meaningful, user-level document attributes, such as "Word file," "published paper," &l ...

# 13 A visual approach to multimedia querying and presentation

82%

1 Isabel F. Cruz , Wendy T. Lucas

**Proceedings of the fifth ACM international conference on Multimedia** November 1997

# 14 Massive arrays of idle disks for storage archives

80%

1 Dennis Colarelli , Dirk Grunwald

**Proceedings of the 2002 ACM/IEEE conference on Supercomputing** November 2002

The declining costs of commodity disk drives is rapidly changing the economics of deploying large amounts of online or near-line storage. Conventional mass storage systems use either high performance RAID clusters, automated tape libraries or a combination of tape and disk. In this paper, we analyze an alternative design using *massive arrays of idle disks*, or MAID. We argue that this storage organization provides storage densities matching or exceeding those of tape libraries with perform ...

# 15 Digital rights management and fair use by design: Fair use, DRM, and trusted computing

80%

1 John S. Erickson

**Communications of the ACM** April 2003

Volume 46 Issue 4

How can DRM architectures protect historical copyright limitations like fair use while ensuring the security and property interests of copyright owners?

# 16 Optimization techniques for queries with expensive methods

80%

1 Joseph M. Hellerstein

**ACM Transactions on Database Systems (TODS)** June 1998

Volume 23 Issue 2

Object-relational database management systems allow knowledgeable users to define new data

types as well as new methods (operators) for the types. This flexibility produces an attendant complexity, which must be handled in new ways for an object-relational database management system to be efficient. In this article we study techniques for optimizing queries that contain time-consuming methods. The focus of traditional query optimizers has been on the choice of join methods and orders; selec ...

#### 17 Virtual machine monitors: Xen and the art of virtualization

77%

Paul Barham , Boris Dragovic , Keir Fraser , Steven Hand , Tim Harris , Alex Ho , Rolf Neugebauer

**Proceedings of the nineteenth ACM symposium on Operating systems principles** October 2003

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service. This paper presents Xen, an x86 virtual machine monit ...

#### 18 Safely executing untrusted code: Upgrading transport protocols using untrusted mobile code

77%

Parveen Patel , Andrew Whitaker , David Wetherall , Jay Lepreau , Tim Stack

**Proceedings of the nineteenth ACM symposium on Operating systems principles** October 2003

In this paper, we present STP, a system in which communicating end hosts use untrusted mobile code to remotely upgrade each other with the transport protocols that they use to communicate. New transport protocols are written in a type-safe version of C, distributed out-of-band, and run in-kernel. Communicating peers select a transport protocol to use as part of a TCP-like connection setup handshake that is backwards-compatible with TCP and incurs minimum connection setup latency. New transports ...

#### 19 SmartPointers: personalized scientific data portals in your hand

77%

Matthew Wolf , Zhongtang Cai , Weiyun Huang , Karsten Schwan

**Proceedings of the 2002 ACM/IEEE conference on Supercomputing** November 2002

The SmartPointer system provides a paradigm for utilizing multiple light-weight client endpoints in a real-time scientific visualization infrastructure. Together, the client and server infrastructure form a new type of data portal for scientific computing. The clients can be used to personalize data for the needs of the individual scientist. This personalization of a shared dataset is designed to allow multiple scientists, each with their laptops or iPaks to explore the dataset from different an ...

#### 20 OceanStore: an architecture for global-scale persistent storage

77%

John Kubiatowicz , David Bindel , Yan Chen , Steven Czerwinski , Patrick Eaton , Dennis Geels , Ramakrishna Gummadi , Sean Rhea , Hakim Weatherspoon , Chris Wells , Ben Zhao

**Proceedings of the ninth international conference on Architectural support for programming languages and operating systems** November 2000

Volume 28 , 34 Issue 5 , 5

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. To improve performance, data is allowed to be cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regional outages and denial of service attacks; monitoring also enhances performance through pro-active movement ...

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- 21 [OceanStore: an architecture for global-scale persistent storage](#) 77%  
 John Kubiawicz , David Bindel , Yan Chen , Steven Czerwinski , Patrick Eaton , Dennis Geels , Ramakrishan Gummadi , Sean Rhea , Hakim Weatherspoon , Westley Weimer , Chris Wells , Ben Zhao  
**ACM SIGPLAN Notices** November 2000  
 Volume 35 Issue 11  
 OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. To improve performance, data is allowed to be cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regional outages and denial of service attacks; monitoring also enhances performance through pro-active movement ...
- 22 [Client-server computing in mobile environments](#) 77%  
 Jin Jing , Abdelsalam Sumi Helal , Ahmed Elmagarmid  
**ACM Computing Surveys (CSUR)** June 1999  
 Volume 31 Issue 2  
 Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...
- 23 [Self-similarity in file systems](#) 77%  
 Steven D. Gribble , Gurmeet Singh Manku , Drew Roselli , Eric A. Brewer , Timothy J. Gibson , Ethan L. Miller  
**ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1998 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems** June 1998  
 Volume 26 Issue 1

We demonstrate that high-level file system events exhibit self-similar behaviour, but only for short-term time scales of approximately under a day. We do so through the analysis of four sets of traces that span time scales of milliseconds through months, and that differ in the trace collection method, the filesystems being traced, and the chronological times of the tracing. Two sets of detailed, short-term file system trace data are analyzed; both are shown to have self-similar like behaviour, w ...


24 StratOSphere: mobile processing of distributed objects in Java 77%

 Daniel Wu , Divyakant Agrawal , Amr El Abbadi  
**Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking** October 1998

25 The HP AutoRAID hierarchical storage system 77%


 J. Wilkes , R. Golding , C. Staelin , T. Sullivan  
**ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles** December 1995  
Volume 29 Issue 5

26 Incremental database systems: databases from the ground up 77%

 Stanley B. Zdonik  
**ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data** June 1993  
Volume 22 Issue 2



This paper discusses a new approach to database management systems that is better suited to a wide class of new applications such as scientific, hypermedia, and financial applications. These applications are characterized by their need to store large amounts of raw, unstructured data. Our premise is that, in these situations, database systems need a way to store data without imposing a schema, and a way to provide a schema incrementally as we process the data. This requires that the ...

27 The Mariposa distributed database management system 77%

 Jeff Sidell  
**ACM SIGMOD Record** December 1996  
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